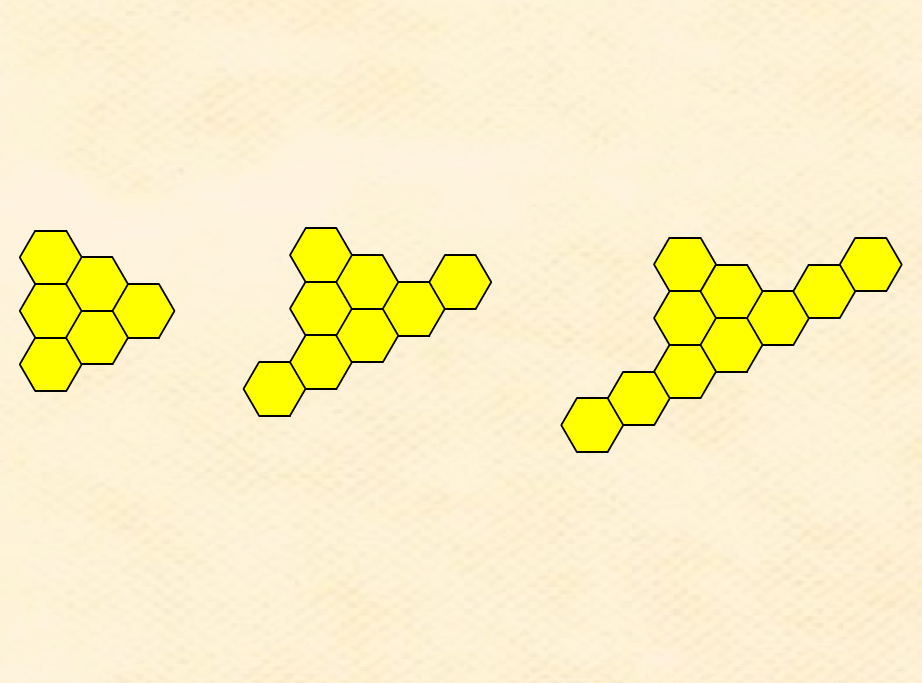
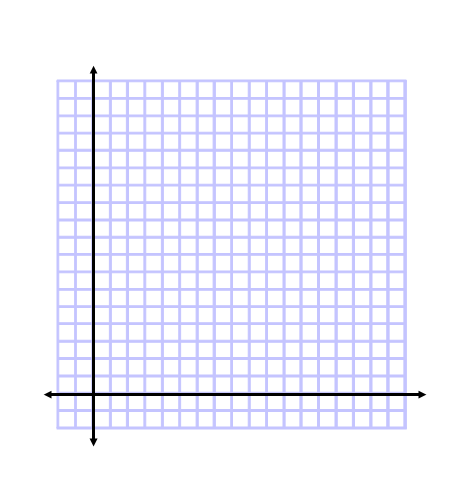
**Algebra 1B Name:**

**1.2 Activity Date:**



**Step 1 Step 2 Step 3**

1. Observe how the pattern grows. What stays the same? What changes? Discuss.
2. What is the **rate of change** of the pattern? (In other words, how much is being **added** or **subtracted** each time?)
3. How many hexagons would there be in **Step 0?**
4. Summarize the relationship between the number of hexagons and the step number using a **table/chart** (I didn’t make one for you this time!)and then with a graph.
5. With a graph! ------->

**(Label those axes!)**

**Algebra 1B Name:**

**1.2 Notes Date:**

**Vocabulary:**

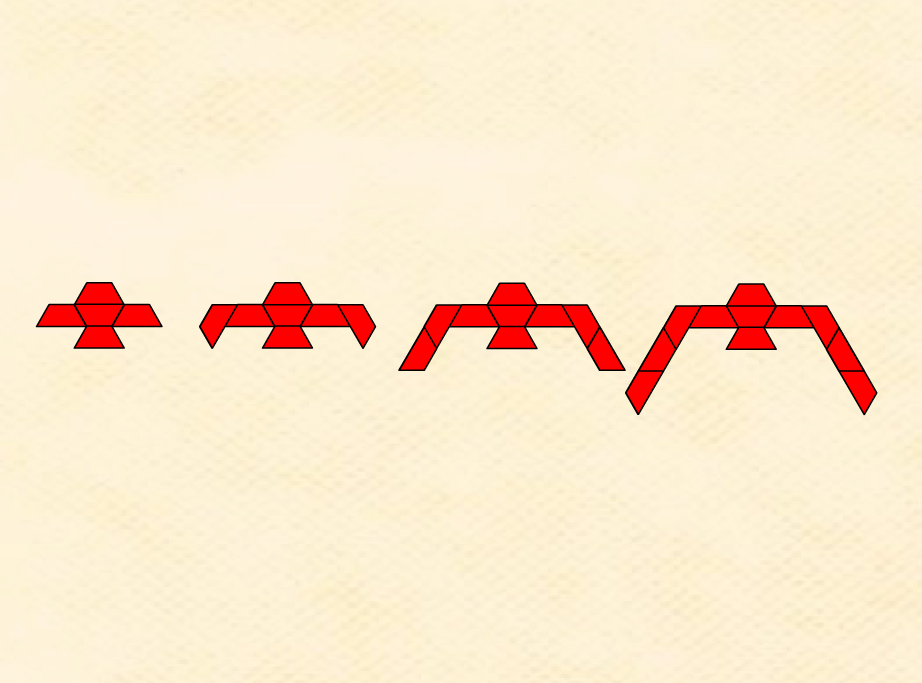
**Rate of Change = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Starting Amount = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Algebra 1B Name:**

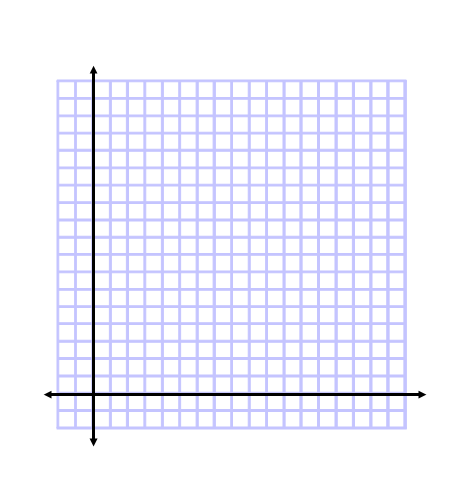
**1.2 Independent Activity Date:**

**Analyze the pattern below. Try to answer the questions below independently, with no help:**

****

**Step 1 Step 2 Step 3 Step 4**

1. What is the **rate of change?**
2. How many shapes (trapezoids) will there be in **Step 0**?
3. So the **rate of change = \_\_\_\_\_\_** and the **starting amount = \_\_\_\_\_\_\_**



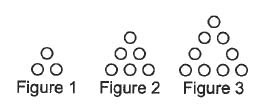
1. Show the relationship between the **step number** and the **total number of trapezoids** with a table/chart and then with a graph.

**Algebra 1B Name:**

**1.2 HW Date:**

**Linear Patterns**

**Here is a new pattern for you to examine:**



**Step 1 Step 2 Step 3**

1. What is the **rate of change** in this pattern?
2. How many circles will there be in **Step 0?**
3. So the **rate of change = \_\_\_\_\_\_** and the **starting amount = \_\_\_\_\_\_\_**
4. Show the relationship between the **step number** and the **total number of trapezoids** with a table/chart and then with a graph.

